JC07 Rec'd PCT/FTO 3 1 DEC 2001

TRANSMITTAL LETTER TO THE UNITED STATES	Attorney Docket No. 01234					
DESIGNATED/ELECTED OFFICE (DO/EO/US)  US Application No. (if known)						
CONCERNING A FILING UNDER 35 U.S.C. 371 See 10 10 10 19446						
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED						
PCT/EP00/06060 June 29, 2000 TITLE OF INVENTION	June 29, 1999					
METHOD FOR ADJUSTING OR CONTROLLING THE DIET AND/OR A PERSON'S CONTROLLING THE DIET AND/OR A PERSON THE DIET	NSUMPTION					
Heiner Stegmann						
Applicant herewith submits to the United States Designated Office (DO/EO/US) the following	g items and other information:					
<ol> <li>This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</li> <li>This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</li> <li>This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</li> <li>A proper Demand for International Preliminary Examination was made by the 19<sup>th</sup> month from the earliest claimed priority date.</li> <li>A copy of the International Application as filed (35 U.S.C. 371(c)(2))</li> </ol>						
a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).  b. ☐ has been transmitted by the International Bureau.  c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).  A translation of the International Application into English (35 U.S.C. 371(c)(2)).  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3).  a. ☐ are transmitted herewith (only if not required by the International Bureau).  b. ☐ have been transmitted by the International Bureau.  c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.  d. ☐ have not been made and will not be made.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3).  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4).  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36						
(35 U.S.C. 371(c)(5).						
Items 11 to 16 below concern document(s) or information included:						
An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  As assignment document for recording. A separate cover sheet in compliance with 3   A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  A substitute specification.  A change of power of attorney and/or address letter.  Other items or information:  German text to which declaration is attached	7 CFR 3.28 and 3.31 is included.					



PATENT TRADEMARK OFFICE

	g fees are submitted: '			CALCULATIONS	PTO USE ONLY
BASIC NATIONAL	FEE (37 CFR 1.492 (	(a)(1)-(5):			
Neither internation	nal preliminary examin	nation fee (37 CFR 1.482	2)		
Nor international	search fee (37 CFR 1.4	445(a)(2) paid to USPTC	• • • • • • • • • • • • • • • • • • • •		
And international	Search Report not pre	pared by EPO or JPO	\$1,040.00		
International preli	minary evamination fo	ee (37 CFR 1.482) not pa	id to		
USPTO but Intern	national Search Report	prepared by EPO or JPC	10 10 10 000 00		
o or 10 out mion	ational Scaron Report	prepared by Er O or Jr C	J		Ì
International preli	minary examination fe	ee (37 CFR 1.482) not pa	id to USPTO but		
International searc	ch fee (37 CFR 1.445(a	a)(2)) paid to USPTO	\$740.00		
	,	7( )/1	φ, ισισσ		
International preli	minary examination fe	e paid to USPTO (37 CF	FR 1.482)		
But all claims did	not satisfy provisions	of PCT Article 33(1)-(4)	\$710.00		
International preli	minary examination fe	e paid to USPTO (37 CF	R 1.482)		
And all claims sat	isfied provisions of PC	CT Article 33(1)-(4)	\$100.00		
TO A YOU	ED ADDDODDYA	TE DACIC DDD AR			
ENII	LK APPKUPKIA	TE BASIC FEE AN	IOUNT =	\$890.00	
Surcharge of \$130.00			20 🔲 30	\$	
months from the earlie					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	11 -20=		X \$18.00	\$	
Independent Claims	2 -3=		X \$84.00	\$	
MULTIPLE DEPEND				\$	
Issueport Physical Issueport Issuepo	ТОТ	AL OF ABOVE CALO	CULATIONS =	\$890.00	
Reduction of ½ for fili	ng by small entity, if a	pplicable. A Small Entir	y Statement	\$445.00	
must also be filed (Not	e 37 CFR 1.9, 1.27, 1.				·
D . C C0120	00.0 0 111 7		SUBTOTAL =	\$445.00	
		glish translation later than	n ∐ 20 ∐ 30	\$	
months from the earlie	st claimed priority date	e (3 / CFR 1.492(1).			
8		TOTAL NATI		\$445.00	
		7 CFR 1.21(h)). The ass	ignment must be	\$	
accompanied by an app	propriate cover sheet (2				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TOTAL FEES E	NCLOSED =	\$445.00	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				Amount to be	\$
				refunded:	\$
a. A check in the	amount of \$ to	cover the above fees is e	nclosed	charged:	Ф
a reneek in the	· amount of $\phi$ to	cover the above tees is e	ncioscu.		
b. Please charge this sheet is er		No. 04-0753 in the amoun	nt of \$ to cov	ver the above fees. A co	luplicate copy of
o The Commission	oner is harehy anth	zed to charge any addition	mal face which	u ha ragginad 1'	t onv
		o. 04-0753. A duplicate of			. any
overpayment (	.o Deposit Account Ne	7. 04-0755. A duplicate (	copy of this sheet is	s cheloscu.	
d. A payment of	f \$ 445.00 is made b	y credit card. A Cred	it Card Payment 1	Form (PTO-2038) is a	attached hereto. The
Commissioner is h	nereby authorized to ch	narge payment of any ad	ditional filing fees	required under 37 CF	R 1.16 or any patent
		R 1.17, or credit any ov			
		f all amounts overpaid,			
requested. Any fee	s not accepted by the c	redit card shown on Forn	n PTO-2038 may b	e charged to Deposit A	ccount No. 04-0753.
CENTE ALL CORRECT	OMBENICE TO	/	$\bigcirc$ (2)		
SEND ALL CORRESI			hatter		
Dennison, Scheiner & S	SCHUITZ	~	JUN JES		
612 Crystal Square 4 1745 Jefferson Davis H	liohway		NATURE L Sabulta		
Arlington, VA 22202-3			J. Schultz		
Telephone (703) 412-1		NA 286	ME 566		
Facsimile (703) 412-1			GISTRATION NUM	(RER	

REGISTRATION NUMBER

Dkt. 01234

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Group Art Unit:

HEINER STEGMANN

Examiner:

Serial No.: US National Phase of

PCT/EP00/06060

Filed: concurrently herewith

For: METHOD FOR ADJUSTING OR CONTROLLING THE DIET

AND/OR A PERSON'S CONSUMPTION

### PRELIMINARY AMENDMENT

Honorable Assistant Commissioner for Patents Washington, DC 20231

Sir:

Before calculation of the filing fee, please amend the above-identified application as follows:

## IN THE CLAIMS:

Please amend the claims as set forth hereinbelow and in the attached appendix:

Page 9, lines 1-3: WHAT IS CLAIMED IS:

- 3. (Amended) Method according to claim 1, characterized by the fact that for determining the performance capacity the individual anaerobic threshold of the person is measured or determined.
  - 4. (Amended) Method according to claim 1, characterized

by the fact that for determining the performance capacity a scaling of the performance measured above the individual anaerobic threshold occurs according to the lactate accumulation rate  $\Delta A$ .

- 5. (Amended) Method according to claim 1, characterized by the fact that the stress is used as a basis for the IAT and the lactate accumulation rate  $\Delta A$  in determining the nutrition and/or the consumption of a person with regard to his/her carbohydrate and/or fat and/or protein percentages.
- 6. Method according to claim 1, characterized by the fact that the individual anaerobic threshold according to Stegmann is used a basis for determining the nutrition and/or consumption of the person with regard to his/her carbohydrate and/or fat and/or protein percentages.
- 7. (Amended) Method according to claim 1, characterized by the fact that when stress occurs in a person over an extended period of time below his/her individual anaerobic threshold, the fat percentage of the nutrition is adjusted comparatively higher than the carbohydrate and the protein percentages.
- 8. (Amended) Method according to claim 1, characterized by the fact that with a lactate accumulation rate  $\Delta A$  against  $\Delta A_{max}$  the protein percentage of the nutrition is adjusted up to several times as high as with  $\Delta A = 0$ .

LAW OFFICES
DENNISON, SCHEINER, SCHULTZ & WAKEMAN
612 CRYSTAL SQUARE 4
1745 JEFFERSON DAVIS HIGHWAY
ARLINGTON, VIRGINIA 22202-3417

9. (Amended) Method according to claim 1 for determining the lactate accumulation rate  $\Delta A$ , comprising the steps of:

measuring the time-dependent lactate concentration change beyond the individual anaerobic threshold,

adjusting a measurement curve to measurement values gained this way, in which the lactate concentration in relation to time is plotted,

determining a first gradient in the measurement curve at a time  $t_{\text{IAT}}$  that corresponds to the individual anaerobic threshold,

determining at least one additional gradient in the measurement curve at a time  $t_{\rm x}$  with  $t_{\rm x}$  >  $t_{\rm IAT}$ 

subtracting the second gradient from the first gradient to determine a difference, which represents the lactate accumulation rate  $\Delta A$ .

10. (Amended) Method according to claim 1, characterized by the fact that for determining the performance capacity, different types of stress such as running tests, swimming tests, stepping tests, ergometry methods with graduated or continuous stress increase with and without breaks are used.

703 412-1155

# REMARKS

The claims have been amended to delete all multiple dependencies, and to generally place the claims in better form for US practice.

Respectfully submitted,

Ira J. Schultz

Registration No. 28666

#### APPENDIX

IN THE CLAIMS:

Page 9, lines 1-3: [Patent Claims

Method for Adjusting or Controlling a Person's Nutrition

and/or Consumption] WHAT IS CLAIMED IS:

- 3. (Amended) Method according to claim 1 [or 2], characterized by the fact that for determining the performance capacity the individual anaerobic threshold of the person is measured or determined.
- 4. (Amended) Method according to [at least one of the previous claims] claim 1, characterized by the fact that for determining the performance capacity a scaling of the performance measured above the individual anaerobic threshold occurs according to the lactate accumulation rate  $\Delta A$ .
- 5. (Amended) Method according to [at least one of the previous claims] claim 1, characterized by the fact that the stress is used as a basis for the IAT and the lactate accumulation rate  $\Delta A$  in determining the nutrition and/or the consumption of a person with regard to his/her carbohydrate and/or fat and/or protein percentages.
- 6. Method according to [at least one of the previous claims] claim 1, characterized by the fact that the individual anaerobic threshold according to Stegmann is used a basis for determining the nutrition and/or consumption of the person

with regard to his/her carbohydrate and/or fat and/or protein percentages.

- 7. (Amended) Method according to [at least one of the previous claims] claim 1, characterized by the fact that when stress occurs in a person over an extended period of time below his/her individual anaerobic threshold, the fat percentage of the nutrition is adjusted comparatively higher than the carbohydrate and the protein percentages.
- 8. (Amended) Method according to [at least one of the previous claims] claim 1, characterized by the fact that with a lactate accumulation rate  $\Delta A$  against  $\Delta A_{max}$  the protein percentage of the nutrition is adjusted up to several times as high as with  $\Delta A = 0$ .
- 9. (Amended) Method according to [at least one of the previous claims] claim 1 for determining the lactate accumulation rate  $\Delta A$ , [characterized by the following procedural steps] comprising the steps of:

measuring the time-dependent lactate concentration change beyond the individual anaerobic threshold,

adjusting a measurement curve to measurement values gained this way, in which the lactate concentration in relation to time is plotted,

determining a first gradient in the measurement curve at a time  $t_{\text{IAT}}$  that corresponds to the individual anaerobic

threshold,

determining at least one additional gradient in the 'measurement curve at a time  $t_x$  with  $t_x \,>\, t_{\text{IAT}}$ 

subtracting the second gradient from the first gradient to determine a difference, which represents the lactate accumulation rate  $\Delta A$ .

10. (Amended) Method according to [at least one of the previous claims] claim 1, characterized by the fact that for determining the performance capacity, different types of stress such as running tests, swimming tests, stepping tests, ergometry methods with graduated or continuous stress increase with and without breaks are used.

Description

# Method for Adjusting or Controlling a Person's Nutrition and/or Consumption

The invention relates to a method for adjusting or controlling the nutrition and/or consumption of carbohydrates and/or fats and/or proteins of a person who is subjected to a certain physical stress.

The invention relates in particular to a method for determining necessary nutrition and/or nutritional therapeutic substances for controlling a person's nutrition by indirectly determining his/her individual carbohydrate, fat and protein the provision of his/her energy level shares in standardized stress tests and the controlled consumption of such shares while taking the results that were determined in the standardized stress tests into consideration.

Carbohydrates, fats and proteins are substrates, which are metabolized in the muscles for energy production, e.g. ATP production. During the transition from a resting position to a state of strong stress, great changes occur in the muscle's metabolism. Due to the increased need for energy, especially the rate of substrate conversion increases drastically.

In this context it is of great importance that in the muscle under stress also the conversion rate ratios of the individual

5

10

20

DENNISON, SCHEINER, SCHULTZ & WAKEMAN LAW OFFICES

substrates to each other change tremendously, i.e. the percentage of carbohydrate, fat and protein conversion in the overall substrate conversion process is regulated in the muscle as a function upon stress.

The invention is based on the problem of developing a method of the above-described kind in such a way that with simple measures a reliable adjustment or control of a person's nutrition and/or consumption as a function upon the relevant stress in relation to the carbohydrate and/or fat and/or percentages occurs, wherein especially among people who are exposed to great stress such as athletes or sick or elderly people a controlled adjustment of the supplied carbohydrates and/or fats and/or proteins or the consumption occurs. According to the invention, the problem is largely resolved by the fact that for the control and/or adjustment of the person's nutrition and/or consumption his/her performance capacity is determined by determining characteristic performance capacity parameters and that as a function upon the determined performance capacity the carbohydrate and/or fat and/or protein percentage requirements and/or consumption by the person is determined, by basing the calculation on the stress that is decisive for nutrition and/or consumption.

According to the invention it is suggested that, for

controlling and/or adjusting the nutrition and/or consumption of nutrients in a person, his/her performance capacity is determined by determining characteristic performance capacity parameters and that his/her need for and/or consumption of carbohydrates and/or fats and/or proteins in his/her food is determined as a function upon the determined performance capacity of the person, basing the calculation on stress-specific substrate mixture ratios that are decisive for nutrition and/or consumption. Substrate mixture ratios should be interpreted as the carbohydrate and/or fat and/or protein percentages.

In particular the invention provides for the fact that for the purpose of determining the performance capacity of the person the heart rate and/or blood pressure and/or ergospirometric parameters and/or lactate concentration in the blood is measured or determined as a function upon the stress.

In a preferred embodiment of the invention, a scaling to a lactate accumulation rate  $\Delta A$ for occurs the purpose determining the performance capacity above the individual anaerobic threshold, wherein in particular accumulation rate  $\Delta A$  is used as a basis for determining the nutrition and/or consumption of the person in relation to his/her protein percentage from glucogenic amino acids.

A method for determining the lactate accumulation rate  $\Delta A$ 

is characterized by the following procedural steps:

measuring the time-dependent lactate concentrate change beyond the individual anaerobic threshold,

adjusting a measurement curve to measurement values gained this way, in which the lactate concentrate in relation to time is entered,

determining a first gradient in the measurement curve at a time  $t_{\text{IAT}}$  that corresponds to the individual anaerobic threshold,

determining at least one additional gradient in the measurement curve at a time  $t_x$  with  $t_x > t_{IAT}$ 

subtracting the second gradient from the first gradient to determine a difference, which represents the lactate accumulation rate  $\triangle A$ .

In order to be able to provide information about the stressspecific regulation of the substrate metabolism of test subjects, initially the performance capacity stress ability of these test subjects must be determined with a standardized test, which allows the possibility of estimating the aerobic/anaerobic transition. Such tests can be conducted with various methods.

For the determination of the performance capacity, different stress types can be applied such as running tests, swimming tests, stepping tests, ergometry methods, e.g. treadmill, rowing ergometry with gradual and/or continuous stress increase, performed with or without breaks.

Alternatively, the following parameters, which can be measured or deduced from the measurement parameters, can be used to determine the performance capacity:

5

```
heart rate (HF) under stress

HF max (with stress)

HF submax (anaerobic-aerobic transition: Conconi test)

HF related performance (physical working capacity)

HF related oxygen intake

blood pressure (RR)

stress blood pressure (systolic)

blood pressure amplitude
```

ergospirometric parameters minute volume (AMV) oxygen intake ( $VO_2$ ) maximum  $VO_2$  ( $VO_2$  max) respiration rate (AF) carbon dioxide emission ( $VCO_2$ ) respiratory equivalent ( $A\ddot{A} = AMV/VO_2$ ) oxygen pulse ( $VO_2 / VO_2$ ) acid/base status, pH value

LAW OFFICES

DENNISON, SCHEINER, SCHULTZ & WAKEMAN
612 CRYSTAL SQUARE 4
1745 JEFFERSON DAVIS HIGHWAY
ARLINGTON, VIRGINIA 22202-3477

respiratory quotient (RQ) ventilatory equivalent for  $CO_2$  and  $O_2$  anaerobic threshold (according to Wasserman) individual anaerobic threshold (according to Stegmann)

lactate concentration in blood

IATs according to Stegmann

ΔA according to Stegmann

model-related parameters deduced from the lactate curve parameters deduced from lactate curve and ergospirometric data.

The most exact method however is the determination of the lactate performance curve in the graduated test with determination of the individual anaerobic threshold according to Stegmann (IATs) as well as the IATs-adjusted lactate accumulation rate  $\Delta A$ .

The lactate performance curve of a human being can be changed only very slowly through training and/or lifestyle. From its course, information can therefore be deduced about the performance and training behavior of a human being over an extended period of time, i.e. the lactate performance curve of a person can be interpreted as "medium-term memory" of his/her

lifestyle.

In relation to the IATs and the  $\Delta A$  value of a test subject and with consideration of the above-described explanations, the following general statements with regard to the carbohydrate, fat and protein consumption of a test subject under stress can be made ( $\Delta A_{max}$  = largest determinable  $\Delta A$  value in a test subject)

Stress Intensity	Duration	СН	Fat	Protein
Start and graduated start	very short[s]	+	++	+++
$>$ IATs, $\triangle A$ -> $\triangle A_{max}$	short[≤ min]	+	++	+++
$>$ IATs, $\triangle$ A $<<$ $\triangle$ A <sub>max</sub>	short[6-10 min]	++	++	++
≤IATs	short[> 2 min]	++	++	+
≤ IATs	medium[< 60 min	]++	++	+
≤ IATs	long[>60 min]	++	+++	++

The relative stress intensities and stress duration periods, to which a person is exposed e.g. in his/her daily life or during sports activities, therefore regulate the ratios of carbohydrate, fat and protein percentages in his/her nutrient consumption. These ratios are shown as a rough outline in the above table. These results can be applied directly for the development of required formula nutrition or nutritional therapeutics that have been adjusted to the

412-1155

individual performance capacity so as to avoid nutritional deficiencies.

When adjusted to the individual anaerobic threshold and/or the adjusted lactate accumulation rate  $\Delta A$ , the need for carbohydrate, fat and protein percentages as a function upon stress intensity and stress duration – in accordance with the table – offers the possibility to expose a test subject to stress in such a controlled manner that carbohydrates and/or fat percentages are used in the desired scope.

The method according to the invention thus represents a connection between knowledge about stress-specific substrate consumption, i.e. carbohydrate, fat and protein consumption of a person, and the possibility to evaluate this specificity based on performance tests and to deduce individual nutritional recommendations or control the substrate consumption through appropriate selection of training modes.

Patent Claims

# Method for Adjusting or Controlling a Person's Nutrition and/or Consumption

1. Method for adjusting or controlling the nutrition and/or consumption of carbohydrates and/or fats and/or proteins in a person subjected to stress, characterized by the fact that for the control and/or adjustment of the nutrition and/or consumption of nutrients in a human being his/her performance capacity is determined by determining characteristic performance capacity parameters and that as a function upon the determined performance capacity the carbohydrate and/or fat and/or protein percentage requirements are determined and/or their consumption by a person, while basing the calculation on the stress, which is decisive for the nutrition and/or consumption.

2. Method according to claim 1, characterized by the fact that, for determining the performance capacity, the heart rate and/or blood pressure and/or ergospirometric parameters and/or lactate concentration in the blood are measured or determined as a function upon the stress.

- 3. Method according to claim 1 or 2, characterized by the fact that for determining the performance capacity the individual anaerobic threshold of the person is measured or determined.
- 4. Method according to at least one of the previous claims, characterized by the fact that for determining the performance capacity a scaling of the performance measured above the individual anaerobic threshold occurs according to the lactate accumulation rate  $\Delta A$ .
- 5. Method according to at least one of the previous claims, characterized by the fact that the stress is used as a basis for the IAT and the lactate accumulation rate  $\Delta A$  in determining the nutrition and/or the consumption of a person with regard to his/her carbohydrate and/or fat and/or protein percentages.
- characterized by the fact
  that the individual anaerobic threshold according to Stegmann
  is used a basis for determining the nutrition and/or
  consumption of the person with regard to his/her carbohydrate

Method according to at least one of the previous

and/or fat and/or protein percentages.

7. Method according to at least one of the previous claims, characterized by the fact that when stress occurs in a person over an extended period of time below his/her individual anaerobic threshold, the fat percentage of the nutrition is adjusted comparatively higher than the carbohydrate and the protein percentages.

- 8. Method according to at least one of the previous claims, characterized by the fact that with a lactate accumulation rate  $\Delta A$  against  $\Delta A_{max}$  the protein percentage of the nutrition is adjusted up to several times as high as with  $\Delta A = 0$ .
- 9. Method according to at least one of the previous claims for determining the lactate accumulation rate  $\Delta A$ , characterized by the following procedural steps

measuring the time-dependent lactate concentration change beyond the individual anaerobic threshold,

adjusting a measurement curve to measurement values gained this way, in which the lactate concentration in relation to time is plotted,

determining a first gradient in the measurement curve at a

time  $t_{\text{IAT}}$  that corresponds to the individual anaerobic threshold,

determining at least one additional gradient in the measurement curve at a time  $t_{x}$  with  $t_{x}$  >  $t_{\text{TAT}}$ 

subtracting the second gradient from the first gradient to determine a difference, which represents the lactate accumulation rate  $\Delta A$ .

10. Method according to at least one of the previous claims,

characterized by the fact

11.

that for determining the performance capacity, different types of stress such as running tests, swimming tests, stepping tests, ergometry methods with graduated or continuous stress increase with and without breaks are used.

Method for adjusting and/or controlling the nutrition

and/or consumption of carbohydrates and/or fats and/or proteins of a person who is subjected to stress characterized by the fact that for the control and/or adjustment of the nutrition and/or consumption of nutrients in a human being his/her performance capacity is determined by determining characteristic performance capacity parameters and that the need for and/or consumption of carbohydrates and/or fats and/or proteins in the

612 CRYSTAL SQUARE 4
1745 JEFFERSON DAVIS HIGHWAY
ARLINGTON, VIRGINIA 22202-3417

food is determined as a function upon the determined performance capacity of the person, while basing the calculation on the stress-specific substrate mixture ratios that are decisive for the nutrition and/or consumption.

703 412-1155

# DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

					Docket No	
	ned inventor, I hereby declare the					
believe I am	post office address and citizensh the original, first and sole inv which is claimed and for which	entor (if only one name is	listed below) or an or	iginal, first and join	inventor (if plural names are li	sted below) of th
METHOD	FOR ADJUSTING OR	CONTROLLING T	HE DIET AND	OR PERSO	N'S CONSUMPTION	
			THE PERIOD INTO	OR A	, the specification of which	
(check one)	is described and claimed	in PCT International Appl	ication		filed on	
	MMDDVVVV	emended on		(if applicable) (OR	is described in United	States Applicatio
ì	Number	filed on (MM/D	D/YYYY)		(OR) X is attached here	to.
I hereby state t	that I have reviewed and under	stand the contents of the a	above identified specifi	cation, including th	e claims, as amended by any an	nendment referre
to above.						
•	the duty to disclose information foreign priority benefits unde	•	·	_	t or inventor's certificate, or 36	55(a) of any PC
	application which designated a patent or inventor's certificate,					
	Prior Foreign Application Number(s)	Country	Foreign (MM/I	Filing Date DVYYYY)	Priority Claimed? Yes No	
199	9 29 508.5	DE	06/29/19	99	<u>X</u>	
199	9 49 479.7	DE	10/14/19	200	<u>X</u>	į.
Parties		<u> </u>	10/14/15			7
		× > -5 11-2 5 1		(a) the d below	<u> </u>	
l hereby claim	the benefit under 35 U.S.C. 119	P(e) of any United States I	TOVISIONAL APPLICATION	(s) listed below.		
particular to the second secon	Application Numb	er(s) Fili	ng Date (MM/DD/YY	m		
principle of principle of principles of principles						
I hereby claim	the benefit under 35 U.S.C. §	120 of any United States	application(s), or 365(	c) of any PCT inte	rnational application designating	g the Unites State
of America, li	isted below and, insofar as the	subject matter of each of	the claims of this appli	ication is not disclor	ed in the prior United States or	PCT Internation
application in	the manner provided by the fir	est paragraph of 35 U.S.C	. §112, I acknowledge	the duty to disclose	e information which is material	to patentability
denned in 37 (	CFR §1.56 which became avail	able between the titing on	te of the buot applicant	on and the participal	Treamander ming date	of may abbricano
	U.S. Parent Application o	Parent Parent	CT Parent Parent Filing Date Parent Patent N		mber	
in an						
As a named in	nventor, I hereby appoint the fo	llowing registered practiti	oner(s) to prosecute thi	s application and to	transact all business in the Pate	nt and Tradema
Oonald I	L. Dennison H. Meserole	Reg. No. 19920 Reg. No. 20833	Ir S	a J. Schultz cott T. Wakeman	Reg. No. 28666 Reg. No. 37730	
Burton S		Reg. No. 24018	IRECT TELEPHONE	CALLSTO		
DENNISON	CORRESPONDENCE TO:	SCHULTZ	(703)412-1155			
Arlington, V	on Davis Highway, Suite 612 Irginia 22202-3417		(703)412-1161	(IAX)		
I hereby declar	re that all statements made here	in of my own knowledge :	are true and that all stat	tements made on inf	ormation and belief are believed	to be true;
and further the	at these statements were made w B U.S.C. §1001 and that such w	ith the knowledge that wi	liful false statements ar	nd the like so made :	re punishable by fine or impriso	nment, or
Full name of s		ner STEGMANN				
)	(First, Mid	dle, Family Name of Surr	jame)		100120	_
/ Inventor's sign	seture X Hon	no - Sti	Quon	Date	20.12.01	·
Residence	Germ	any OFX	1	Citizenshi	• German	
(C	ity, State, Country)				P	
Full Post Offic	ce Address Frie	drich-Ebert-A	nlage 25, 63	450 Hanau		<del> </del>
•						
Full name of	second joint inventor					<del></del>
	(Furst, Mi	ddle, Family Name or Sur	name)			
	tor's signature			Date		
Residence (C	City, State, Country)			Citizenshi	Ρ	
Full Post Offi	ce Address					

Rev. 8/99